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Applicant: Dasa Lipovsek et al. Art Unit: 1653
Serial No.: 09/456,693 Examiner: Schnizer, H.
Filed: December 9, 1999 Customer No.: 31020
Title: PROTEIN SCAFFOLDS FOR ANTIBODY MIMICS AND OTHER
BINDING PROTEINS

Assistant Commissioner for Patents
Washington, D.C. 20231

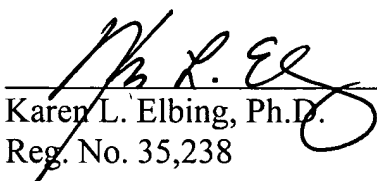
SUBMISSION OF SECOND SET OF FORMAL DRAWINGS

As requested, Applicants submit herewith a second set of formal drawings
identical to those submitted on January 17, 2002.

If there are any charges, or any credits, please apply them to Deposit Account No.
03-2095.

Respectfully submitted,

Date: 16 January 2003


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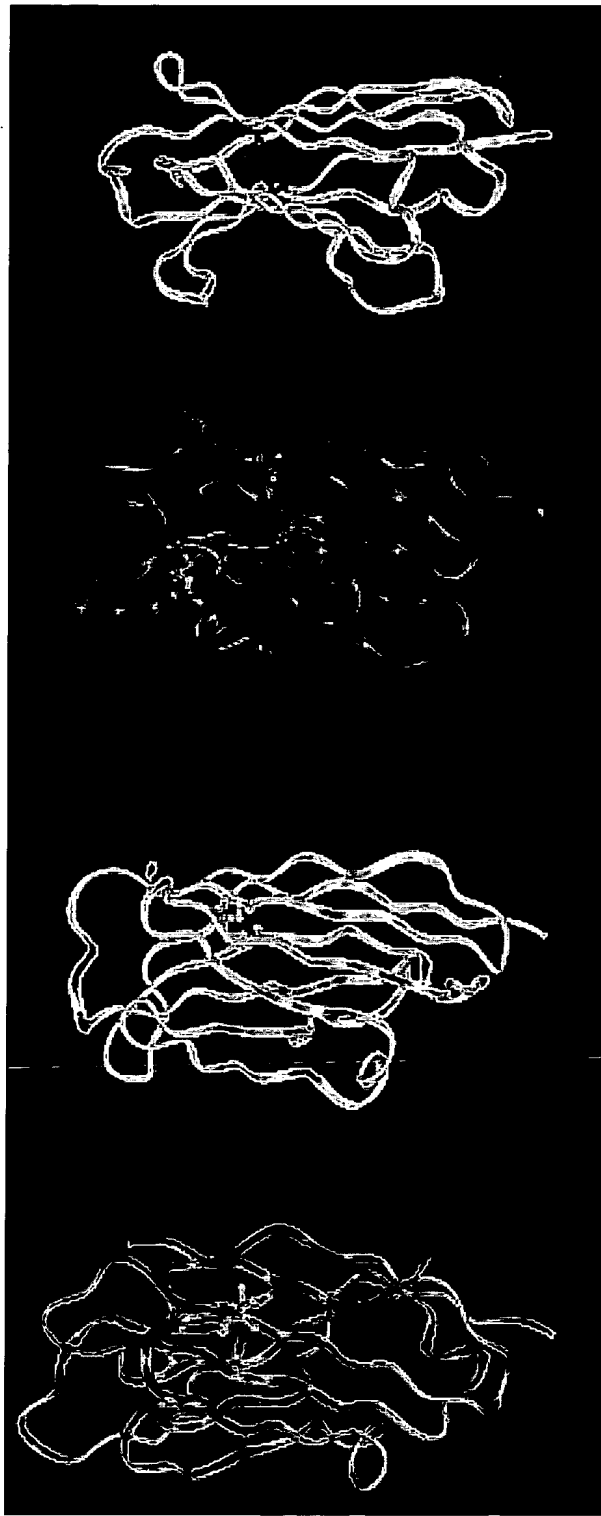


Fig. 1

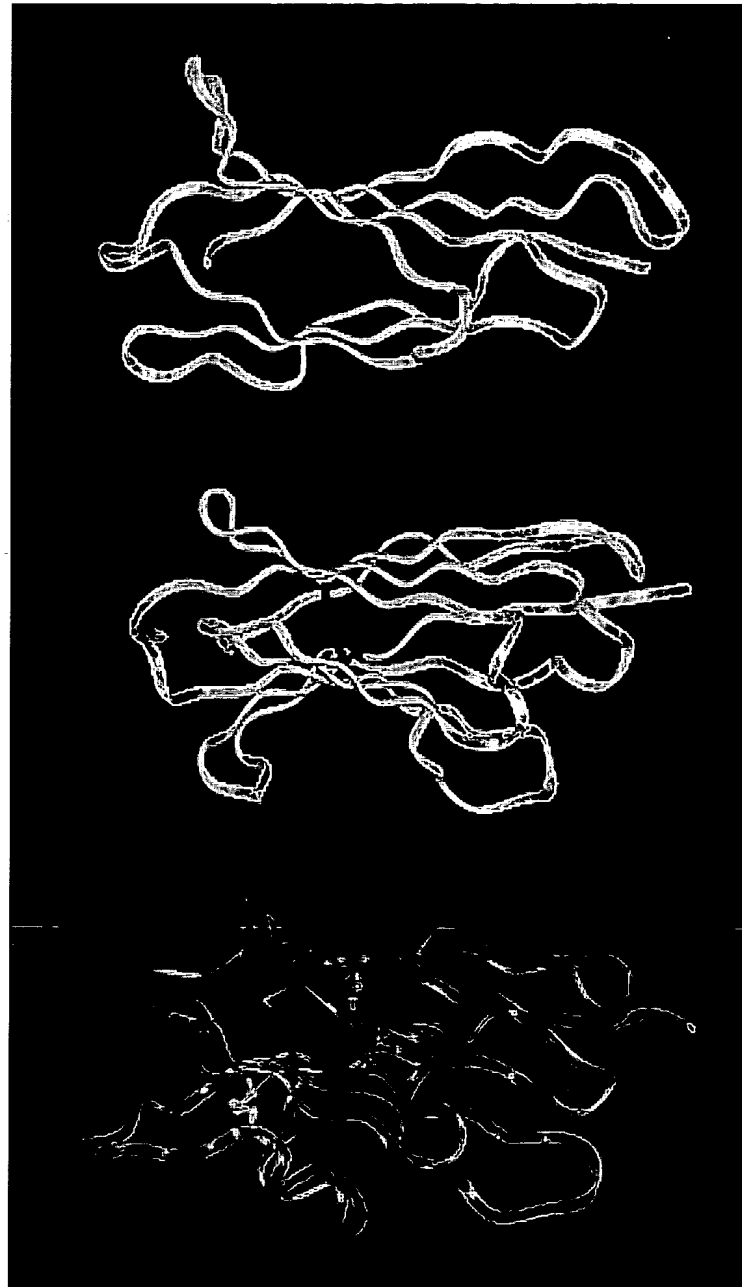


Fig. 2

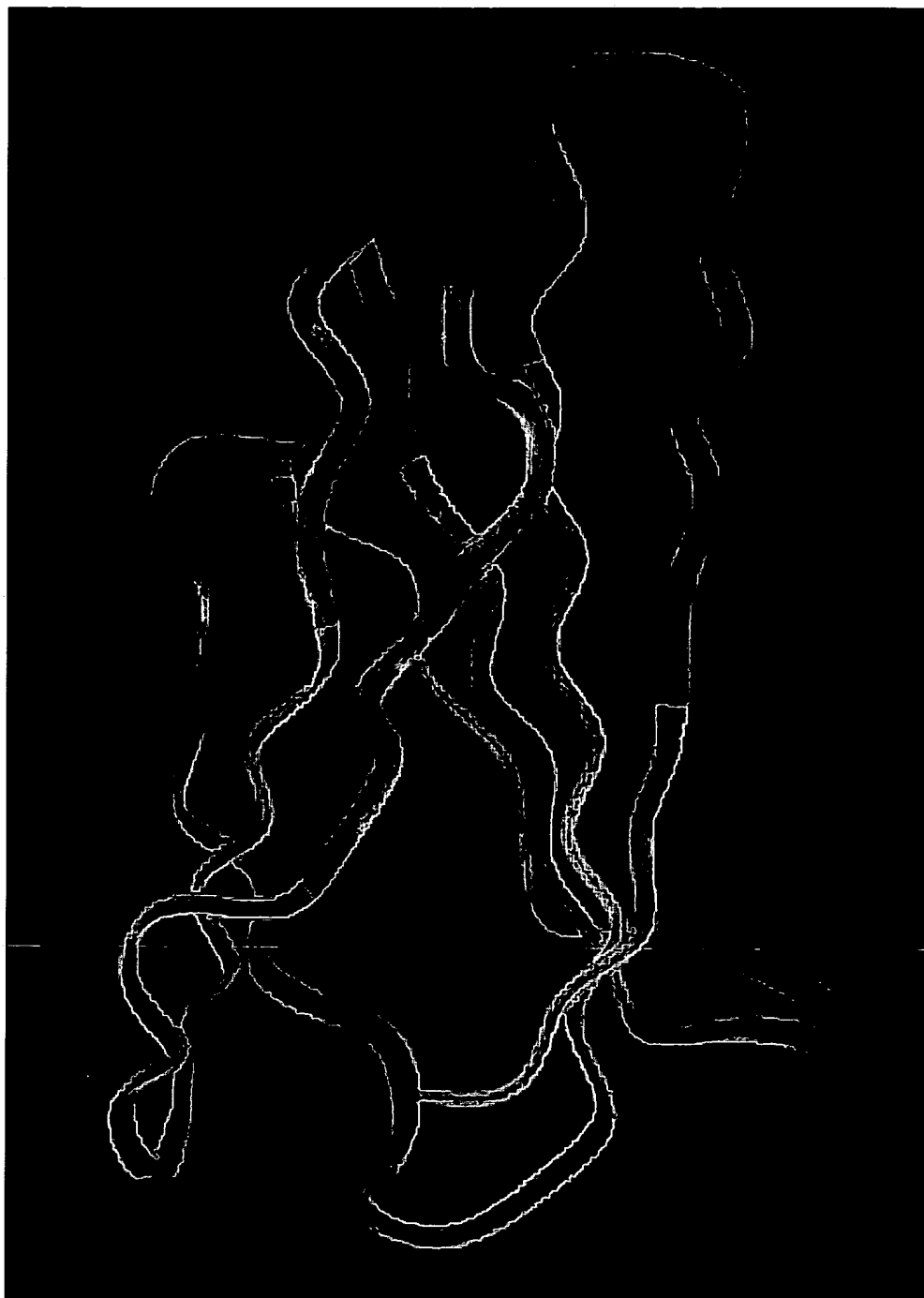


Fig. 3

Hs FND	1	9	10	19	20	29	30	37	38	47	48	57	58	67	68	77	78	87	88	94
	VSDVPRD-LE	VWAATPTSL	ISWDAPAVTV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YITTVYAVTG	RGDSPASSKP	ISINYRT	94									
Bt FN	VSDVPRD-LE	VIAATPTSL	ISWDAPAVTV	RYRITYG--	ETGSSPVQE	FTVPGSKSTA	TISGLKPGVD	YITTVYAVTG	RGDSPASSKP	VSINYRT	1510									
Rn FN	VSDVPRD-LE	VIASTPTSL	ISWEPNAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINNIKPGAD	YITTVYAVTG	RGDSPASSKP	VSINYQT	1611									
Mm FN	VSDVPRD-LE	VIASTPTSL	ISWEPNAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINNIKPGAD	YITTVYAVTG	RGDSPASSKP	VSINYKT	712									
Oc FN	VSDVPRD-LE	VIASTPTSL	ISWEXPAVTV	RYRITYG--	ETpN----	-----	-----	-----	-----	-----	64									
Gg FN	VSDVPRD-LE	VNPSTPTSL	ISWDAPAVTV	RYRITYG--	ETGSSPVQE	FTVPGTMSRA	TITGLKPGVD	YITTVYAVTG	RGDSPASSKP	VTVTYKT	443									
Xl FN	VSDVPTD-LE	VTSSSPNTLT	ISWEAPAVSV	RYRITYS--	QTGCHGPEKE	FTVPGTSNTA	TIRGLNPGVS	YITTVYAVTG	RGDSPASSKP	LTITHT	1611									
Cf FN	AiDAPSn-Lr	FLATTpNSLL	VSQWpPArI	TGYIKYe--	kpGSPPrEV	prprPGVTeA	TITGLepGTE	YTIQVIAIKn	NQKSepLLIGr	kKrdEL-	197									
Ec FN	AiDAPSn-Lh	FLATTpNSLL	ISWQpPArI	TGYIKYe--	kpGSPPrEV	prphpgVTeA	TITGLepGTE	YTIQVIAIKn	NQKSepLLIGr	rKrdEp-	197									
Hs TC	VS-PPKD-Lv	VteVteeTVN	LAWDn-eMrV	TeVILVYTP-	-THEGGLMQ	FrVPGDQTST	IIQeLePGVE	YFIRVFAILE	NKKSipVSAR	V-----	686									
Ss TP	VS-PPKD-Li	VteVteeTVN	LAWDn-eMrV	TeVILVYTP-	-THEGGLMQ	FrVPGDQTST	TIRLePGVE	YFIRVFAILE	NKKSipVSAR	V-----	686									
Mm TX	MidGPQD-Lr	VWAVTPTTLD	LSWlrPQAEV	DrFVVSIV--	--SAGNqRv-	LeVPPeADrT	QLTdLMPGVE	YVTVTAERG	HAVSypASIR	ANTG----	889									
Hs CAP	TlpVPvvsLn	IYdVGPTTMH	VQWQp-VGGA	TGYILSYkPV	kDTEpTrpKp	QdVtLRdVTH	ELDGLLPNTE	YITTVYAMF-	-----	-----	1551									
Oc C12	TlpVPvvsLn	IYdVGPTTMH	VQWQp-VGGA	TGYILSYkPV	kDTEpTrpKp	QdVtLRdVTH	ELDGLLPNTE	YITTVYAMF-	-----	-----	322									
Gg C14	LalpmaSDlk	LYdVShSSMR	AKWNG-VAGA	TGYMILYAPL	TEGLAADEKE	IKIGEASTeL	ELDGLLPNTE	YITTVYAMF-	-----	-----	508									
Hs U1	LalpmaSDll	LYdVtensMR	VKWDa-VpGA	SGVILLYAPL	TEGLAGDEKE	MkIGETTIdI	ELDGLLPNTE	YITTVYAMFG	eeASDpVTGq	e-----	321									

var.

cons.	P	<u>L</u>	V	SL	<u>W</u>	V	Y	I	<u>Y</u>	I	L	PGVD	<u>Y</u>	ITV	<u>A</u>	G	<u>S</u>	P
	M	I	I	TV		A	F	V		L	I	NTE	VQL	N	R	E	R	
				M		I						AS	R					

CAP	Collagen alpha precursor	BOLD	identical to Hs FND
C12	Collagen type 12	lower case	non-conservative substitution
FND	Fibronectin type III domain		(charge reversal, change between hydrophobic and charged, addition or removal of p)
FN	Fibronectin		position of non-conservative substitutions
TP	Tenascin precursor		
TC	Tenascin-C		
U1	Undulin 1		

Bt	Bovis taurus	cow
Cf	Canis familiaris	dog
Ec	Equus caballus	horse
Ss	Sus scrofa	pig
Hs	Homo sapiens	human
Oc	Oryctolagus cuniculus	rabbit
Xl	Xenopus laevis	African clawed frog

Fig. 4

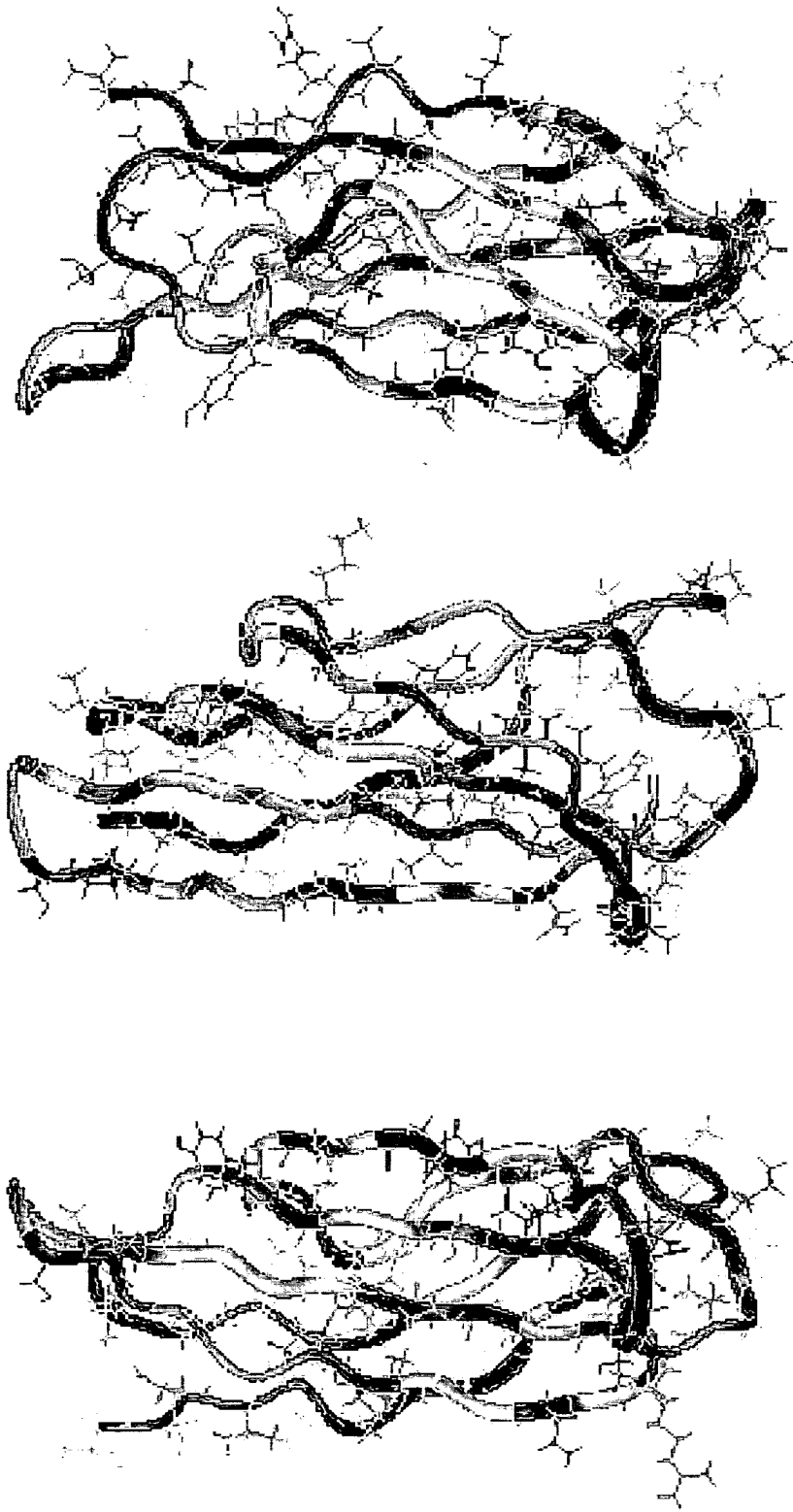


Fig. 5

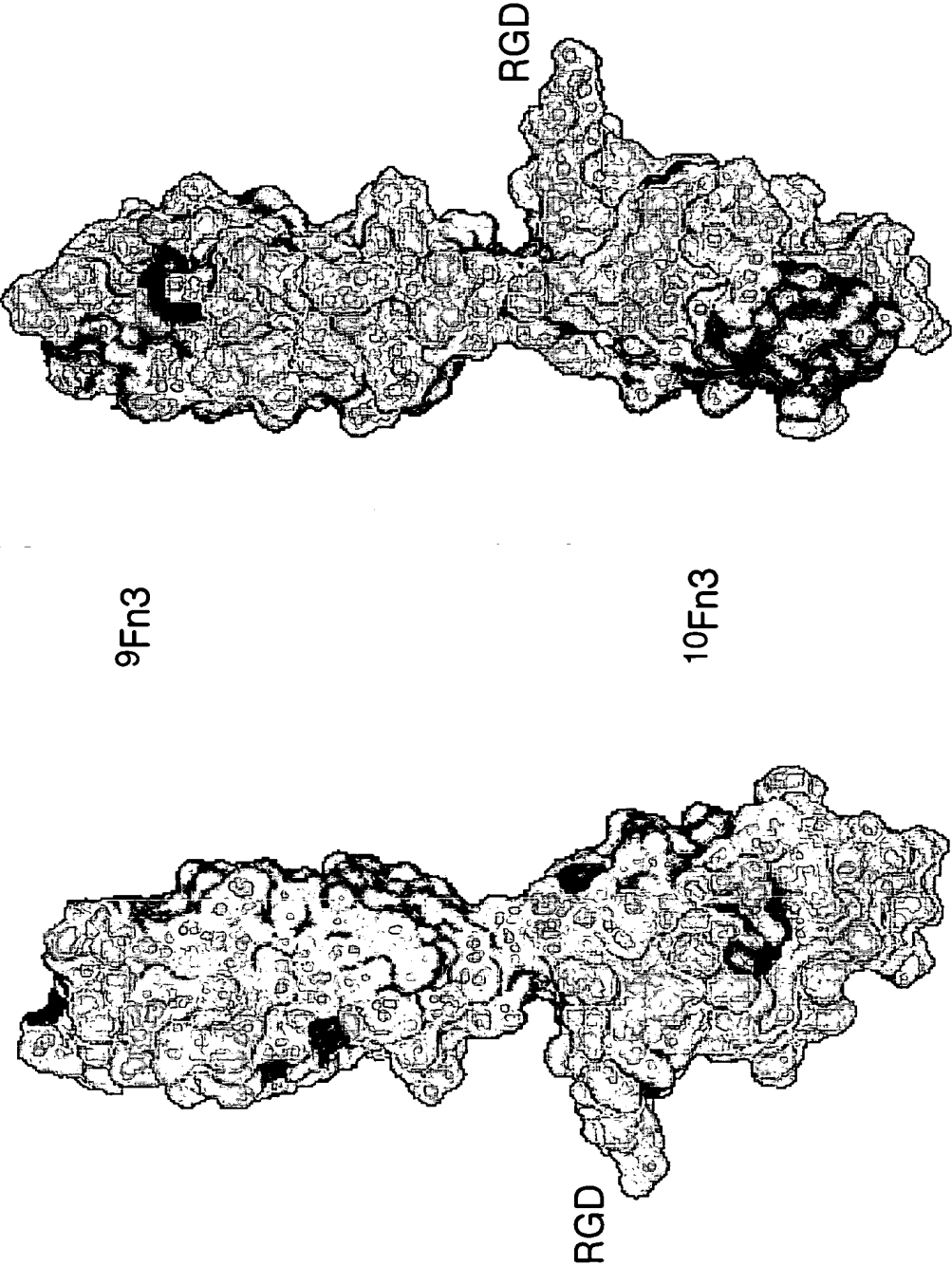


Fig. 6

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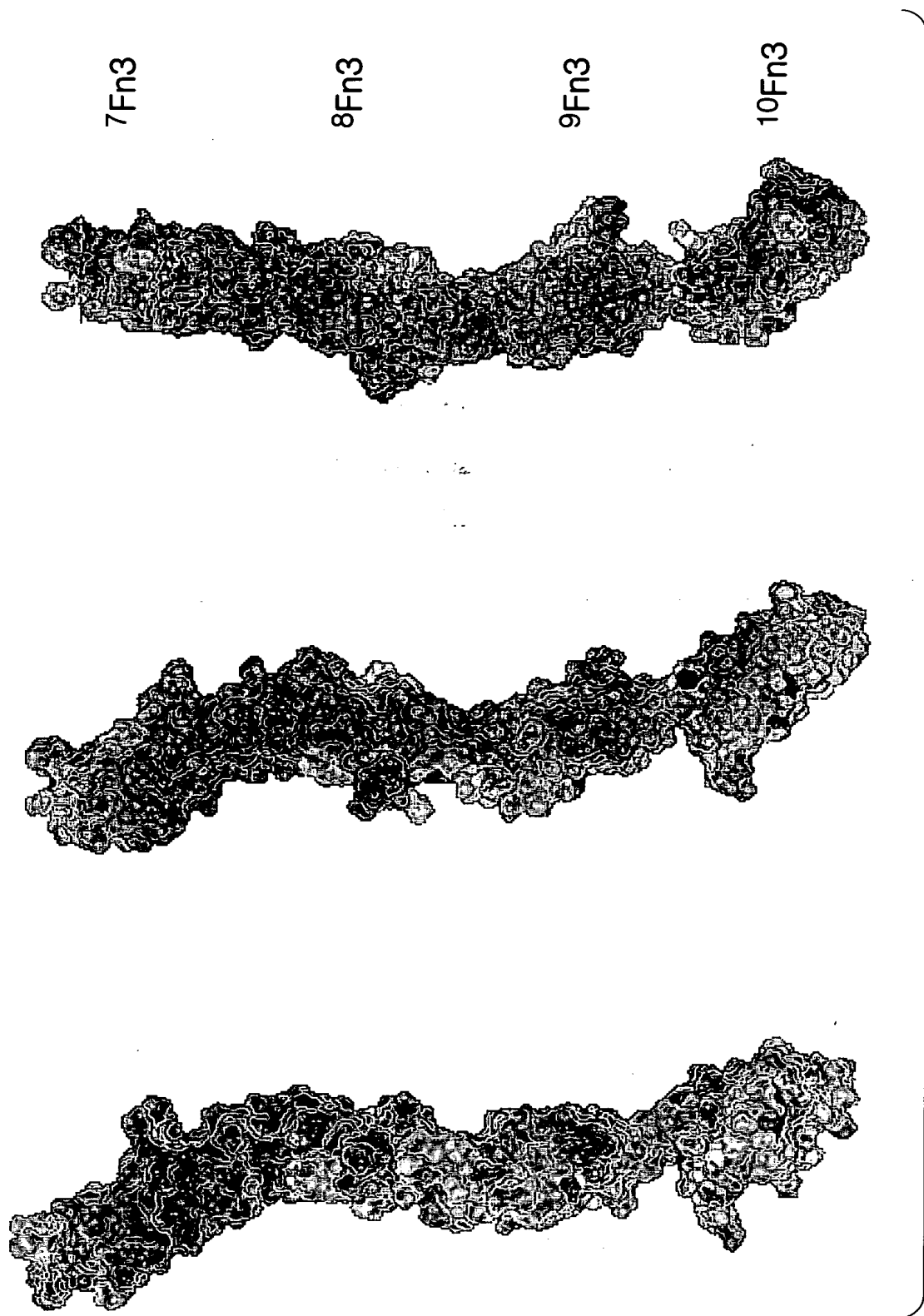


Fig. 7

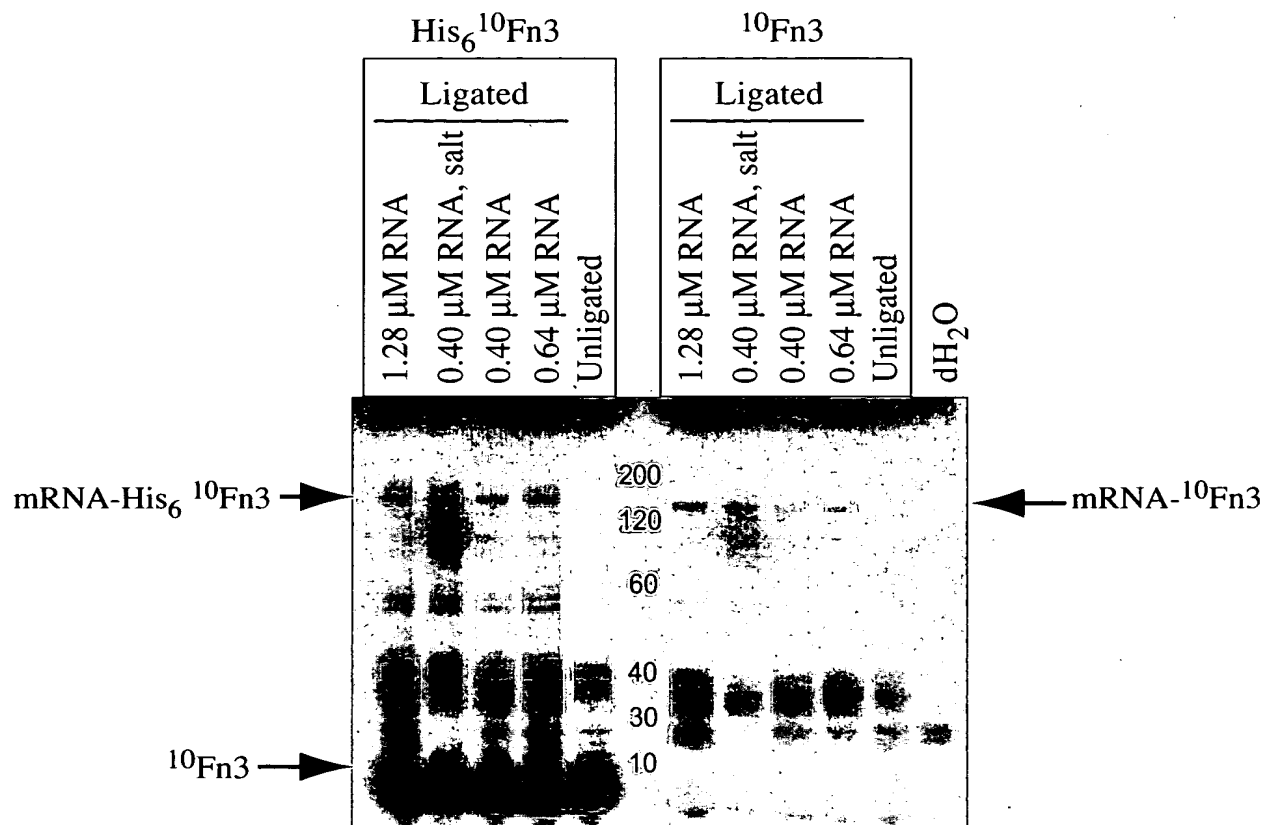
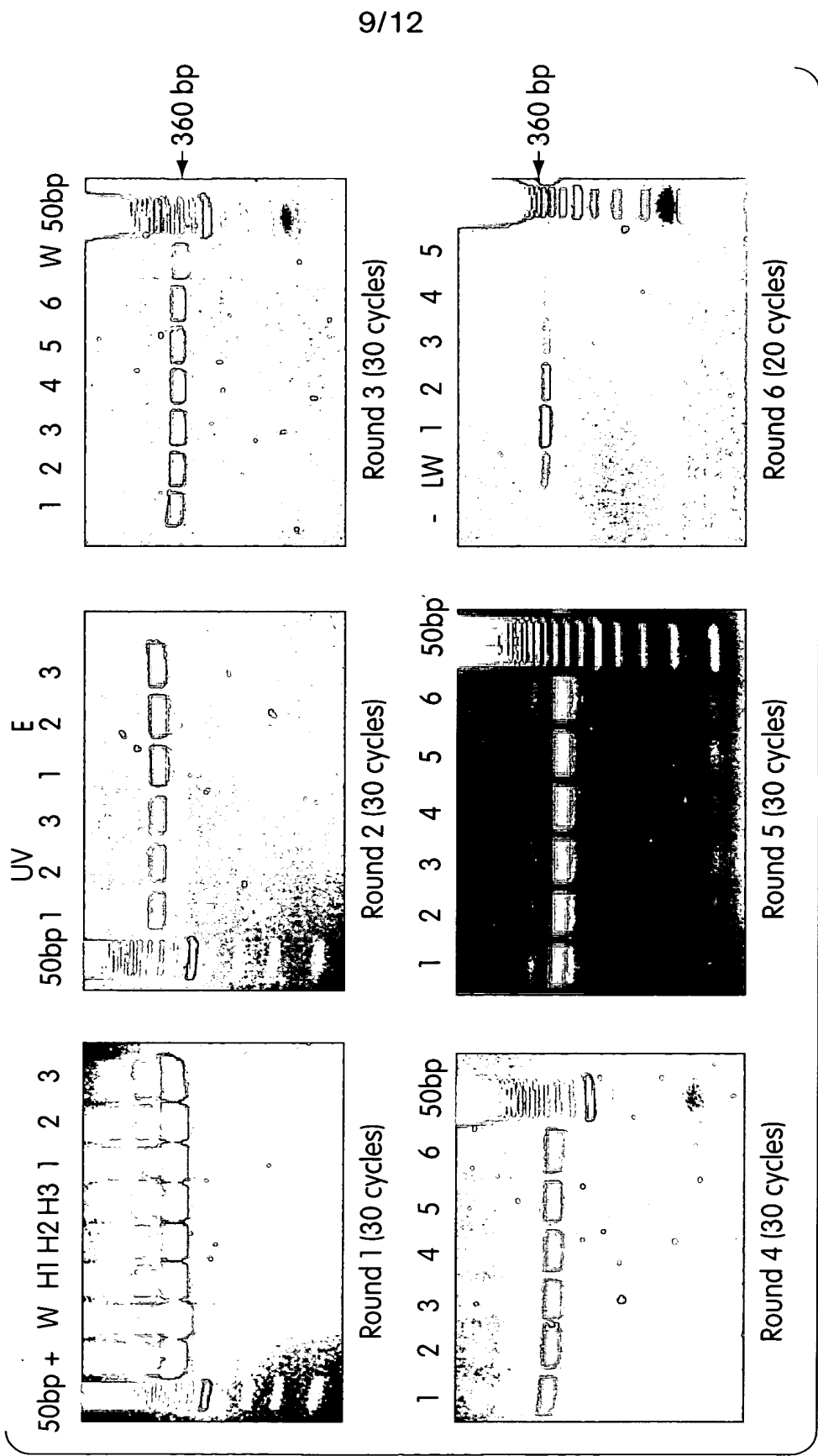


Fig. 8



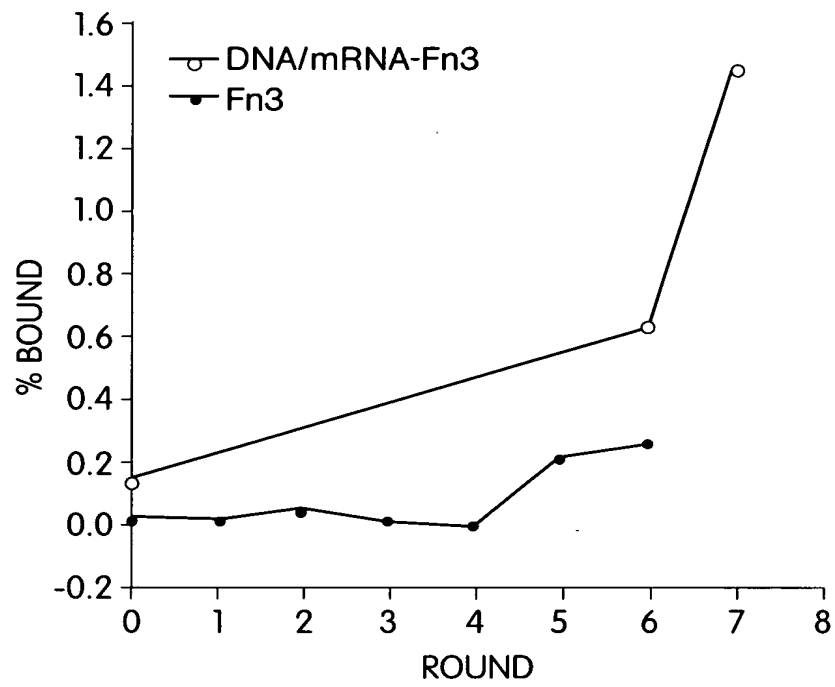


Fig. 10

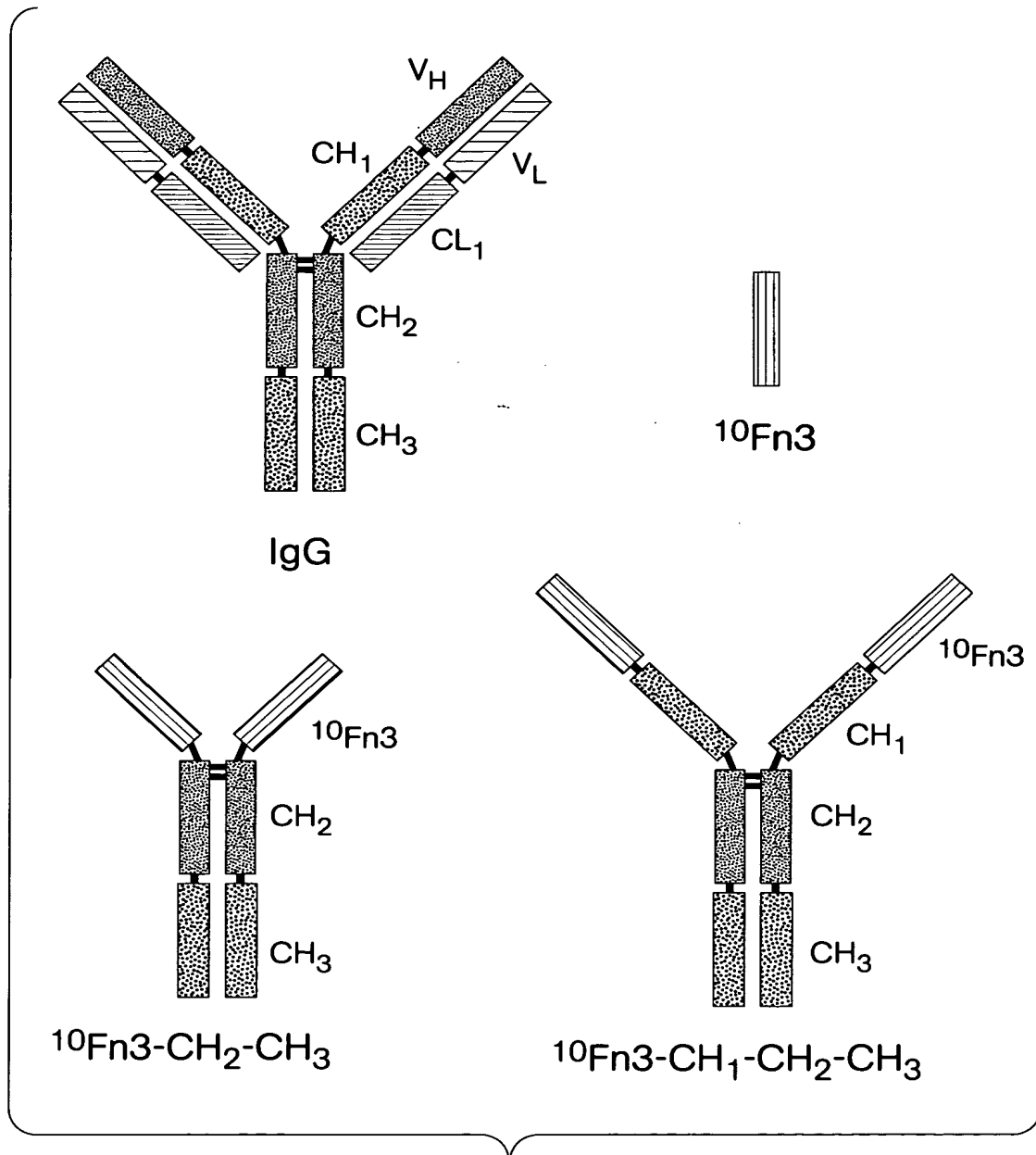


Fig. 11

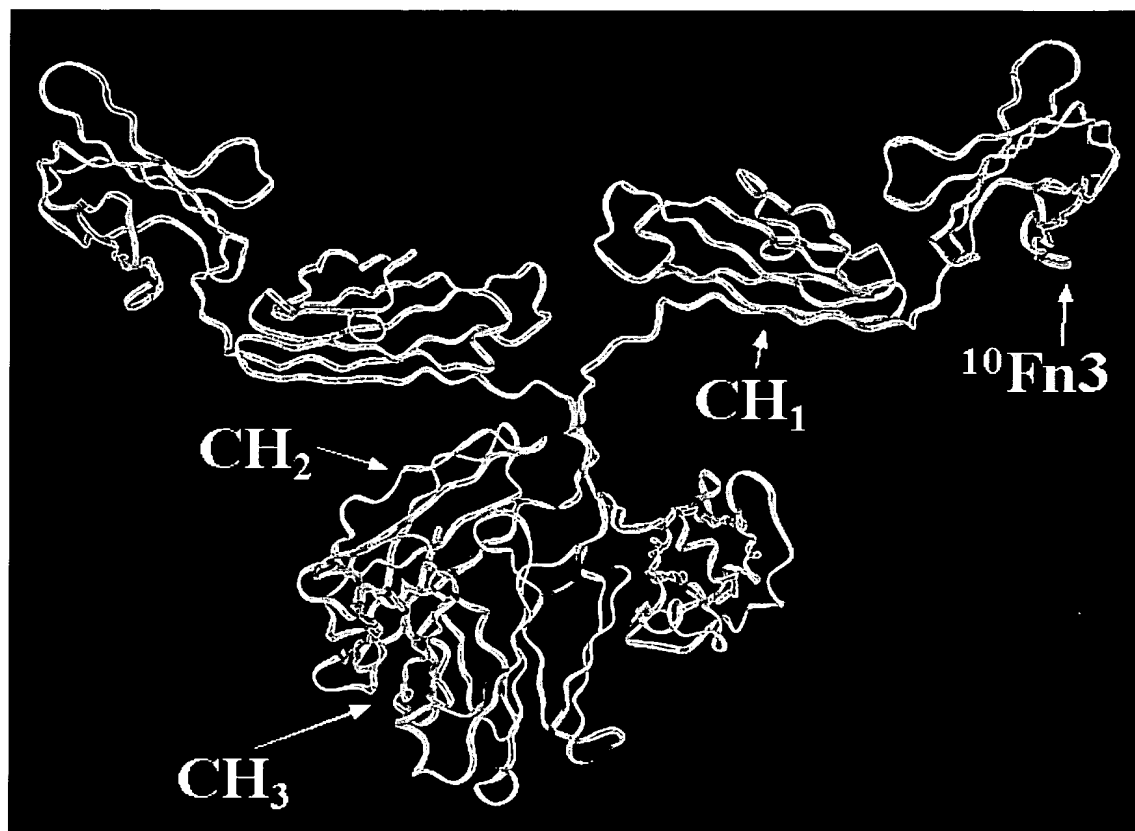


Fig. 12